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	CENTRAL INTELLIGENCE AGENCY	
COUNTRY	Romania	
SUBJECT		DATE DISTRIBUTED 1956 50X1-HUM
	Research in Virology, Bacteriology, and Parasitology	NO. OF PAGES NO. 50X1-HUM
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considerable effort is being expended in the development of blood banks. Apparently there are major blood banks or "hematologic centers" in Bucharest, Targu-Mures, Cluj, Timisoara and Issi, and possibly in other cities as well.

h. There is ample evidence of the high degree to which research is directed by the Academy of the Feoples! Republic of Rumania in order that there be no needless duplication and to ensure that nonessential research is kept to a minimum.

Institute

- In Rumania the Dr I Cantaguaino is apparently the only producer of "biologicals". In this connection, mention is made of the fact that the Institute was unable to produce enough anti-diphtheria vaccine during the period 1950-1955 when the Government conducted an intensive immunisation drive necessitated by the fact that vaccination of children was badly neglected during the period 1945-1950. As a result of the neglect there were a total of 61,298 diphtheria fatalities in the five years following World War II.
- 2. There follows a translation of the table of contents of the July-December 1955 issue of "Studies and Research in Virology, Factoriology and Parasitology" including title of each paper, author's name, and institution where research was performed (when given). Included also are abstracts from and/or comments on those papers which appear most significant:

Section I Virelery

a. Title of Paper:

"An Interpretation of the Plurality of the Epidemic Hepatitis Viruses in Light of the Theory of the Spontaneous Variation of Viruses"

Authors:

Academicians St S Nicolau and N Caisl

Site of Research:

Institute of Virology of the Academy of the Peoples!
Republic of Rumania

Comments:

of virus hapatitis during the period 1942-1944 differed clinically, immunologically and epidemiologically from the epidemic which broke out in 1948 and persisted until 1955. Hapatitis viruses are classified into three main groups: Botkin hapatitis, selerogenic hapatitis and hemologus serum hapatitis. The objective of the authors is to determine whether each of these types has a separate and distinct origin or whether they are all variants of the same original strain. Their research supports the theory of spontaneous variation of viruses and they conclude that the sclerogenic virus evolved from the Botkin virus and, in turn, the homologus serum hapatitis virus evolved from the sclerogenic virus. The variations are attributed to multiple and complex changes in the expernal medium of the viruses, including windiscriminate use of antibiotics.

The conclusions of the authors are based fundamentally on the theories of Lysenko but they also quoted from a wide variety of authors including the following of particular interest:

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- (1) L <u>Missnikov</u> (USSR) who reported discovering in Central Asia a form of virus hepatitis intensely ascitogenic.

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- (2) Skyortoy (USSR) who discovered an acute idiopathic atrophy of the liver caused by hepatitis virus.

Throughout the article the authors insert caustic criticism of Western geneticists such as the following:

"Of course the representatives of the 'formal genetics do not admit the possibility of modifications of organisms under the influence of different conditions of life. In their errorecus conceptions they claim that these modifications are directed by 'internal factors'. In the case of the adaptation of viruses to the given tissues and the resulting variations, how can we speak about "internal factors" when it is evident that the essential factor is external . i.e., the metabolism of the host cell. The Morganists affirm that hereditary modifications are in general reduced to the recombinations of chromosomic genes. In the cases of viruses can we speak of chromosomic genes when their structure consists often of a single molecule; All these false thecries lead to the negation of the theory about the hereditary transformation of living organisms. They are heresies of the so-called "idealistic biology" "

While the conclusions of the authors have obvious political overtones, in their research they studied an impressive total of 1500 cases of virus hepatitis found in Bucharest, Ploesti, Targu-Mures and Timisoara.

b, Title of Paper:

"Ecologic Relationships between Bacteriophages (Double Study Symbiotic and Lytic) and Lysugenic Bacteria of the Family of Entero-Bacteria. Conditions in Which Transfer of Lysugen May Take Place between 'Strains' and 'Species' of Heterologic Origin"

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C-O-M-R-I-D-E-M-T-I-A-L

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authors:

Academicians N Ciuca, Marcela Popovici, N Hestorescu, G Strojan, A Valeriu, and R Weinbach

Research:

Not given

Comment:

in^{50X1-HUM} This article includes the first mention this particular journal of the use of radioactive isotopes. For instance, it is stated that "with the aid of labeled radioactive isotopes, a transfer of 30 percent radioactivity was transferred to the progeniture phage in the course

of a single cycle."

Title of Paper: "The Influence of the "Scheme of Treatment" in Anti-Rabies Vaccination both before and after Infection"

Authora:

H. Constantinescu, A Stirbu, A Cheptes, and C Taindel

Site of

The Institute of Epidemiology and Microbiology and the Research:

Institute of Virology

Title of Paper: "Research on the Serum Proteins and the Activity of Blood Catalase in Experimental Herpes Encephalitis in Rabbits

Anthors:

Mella Mison-Crichel, C Pintilie, Dorina Lagar, I Oltoanu (deceased), A Petrescy and Scrinella Voinescy

Site of Research:

The I P Pavlov Institute of the Academy of the Peoples? Republic of Rumania

<u>Comment:</u>

The research described in this paper is a part of a problem on neuroviruses which was assigned to the I P Pavlov Institute in 1952. The work of the authors deals mainly with biochemical modifications of serum proteins and blocd catalese in experimental herpes encephalitis. They conclude: (1) there can be an increase or a decrease of total serum proteins and serum globulins independently of their biochemical modifications; (2) there is no direct connection between increases and decreases of serum proteins and serum globulins and the extent of the anatomical lesions; (3) blood catalases show an increase when there are extended anatomical lesions.

Title of Paper: "Research on the Hemoagglutine-Inhibition Reaction in Epidemic Hepetitis* 50X1-HUM

Authors:

Alexa Fasekas and Nandor Hunn

<u>Site of</u>

The Samepid Laboratory Research:

of Reghin (small town in Transylvania)

The authors conclude that the most important diagnostic reactions for epidemic hepalitis are: (1) the Hemoegglutination (HA) reaction and (2) the Hemoagglutino-inhibition (HAI) reaction worked out by N Cajal and St S Nicolau. hepatic antigen used by the authors was supplied by the Institute of Virology but because of the lack of a sufficient

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supply of antigen they shecked the HAI reaction on only 40 cases of epidemic hepatitis in the Reghin region. The reaction proved to be accurate in 97.5 percent of the cases.

f. Title of Paper:

"Contributions to the Diagnosis of Virus Hepatitis by the Hemonagolutino-Inhibition Reaction (HAI)"

Authors:

L M Ivan, S Riberi and Elian Rottmann

Site of

Department of Epidemiology of the Medico-Pharmeceutical Institute of Bucharest

Comment:

This article is a review of the important contributions made by Rumanian researchers directed by St S Nicolau in developing methods of diagnosing virus hepatitis. Mention is made of the fact that diagnostic techniques were checked extensively on individuals who donated blood to the "Hematologic Center" (Blood Bank) of Bucharest. Previous issues of the journal have referred to other Rumanian blood banks and transfusion centers and there are major hematologic centers in the following locations: Bucharest, Targu-Mures, Cluj, Timiscara and Issi. 50X1-HUM

g. Title of Paper:

"Modifications of the Hemoagglutinant Properties in Retal Cases of Virus Hepatitis in the Period November 1954-4pril 1955"

Authors:

J Schwertz, O Moscovici, N Cajal, J Smauel, S Dumitrescu and I Aderca

Site of Research:

Not given

Comment:

Although no statistics are given, the article indicates that fatalities from virus hepatitis are a fairly common occurrence throughout humania.

h, <u>Title of Paper:</u>

"The Action of Hen Embryonic Liquid on the Influence Virus"

Authors:

N Cajal and M Cepleanu

Site of Research:

Institute of Virology

Comment:

Authors demonstrate that amniotic and alantoidic sig/fluid increases the virulence of the influenza viruses types "A", PRg and "T" which were isolated by Derevici during the 1953 epidemic of influenza in Rumania. The results obtained by the authors raises the question of the degree to which embryonic fluid could increase the virulence of other viruses.

i. <u>Title of Paper:</u>

"The Dynamic of Anti-Influenza Serum Antibodies in Children and Adults Vaccinated with an Autonomous (Home-Made) Vaccine. The Role of Non-Specific Excitants "

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__O_N_F_L_D_E_N_T_I_A_L

Authors:

A Derevici, D Sarateanu, A Brontiki, A Retresou, L Rotschild, H Dramanescu, C Satmari, J Pretusca, A Stancu, A Timerman, and M Pironcoff

Comment:

After a short review of the anti-influence mass vaccination performed by Smorodintev, Jdanov and Nikolaev in 1952-1953 on several hundred thousand people in the USSR, the authors describe their experiments with a home-made vaccine developed at the instruction of the Minister of Health. A formulated C.5 percent vaccine was prepared from mice lungs infected with a Type "A" influensa virus isolated in the pre-spidemic per 10d of 1953. The vaccine was administered subcutaneously and intranssally to a group of 333 children and adults in the period November 1954-Merch 1955. The results were similar to those obtained in the USSR. As a practical conclusion, the authors emphasized the necessity of association of the vaccine with a non-specific excitant because of the important role of the central nervous system in the development of immunity.

Title of Paper:

"The Comparative Immunizing Value of the Different Anti-

Smallpox Vaccines of Ovine Origin*

Authers:

I Suhaci and R Ursache

Site of Research:

Not given

Comment:

Mention is made of the fact that the Pasteur Institute of Bucharest prepared sensitized virus from smallpox strains obtained from Algeria and the question arises as to how virulent smallpox strains are sent from Algeria to Bucharest.

Title of Paper:

"Research on the Phenomenon of "Sensitization" of Smallpox Virus of Ovine Origin*

Authobi

Lolica I Pascu

<u>Site of</u> Research:

Not given

Comment:

The phenomenon of sensitization is explained in terms of the theories of Lysenko and Midwirin.

Title of Paper:

"Research on the Commakia Viruses; Isolation of New Cokeakie Strains; the Relationship between the Human Disease and the Experimentally Produced Disease

uthors:

Academicians C. Ionescu Mihaiesti, R. Klein, F Horodniceanu, and M Zemfirescu

Site of Research:

Institute of Immunology of the Ministry of Health and the Collective of Microbiology

Comment:

Purpose of the authors was to investigate the spread of Complie viruses in Rumania. In their acknowledgements the authors express appreciation of the contributions of the

Sanspid stations in Ploesti, Arad and Braila

whose "collection of the pathological products made this research possible".

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. Title of Paper:

"Research on the Consakie Viruses: Attempt to Cultivato Consakie Strains Isolated in Romania on Mouse Embryonic Tissue"

inthers:

D Sargieson, F Horodniceann, R Klein, and M Zam?iresou

Site of Besearch:

Institute of Immunology of the Ministry of Health and the Department of Microbiology of the Medico-Pharmeneutical Institute of Bucharest 50X1-HUM

Coment:

The authors attempted to cultivate the Consakie virus on mouse embryonic tissue. They failed due to lack of adequate laboratory facilities

Section II Bacteriology (Microbiology)

Title of Paper:

"Anti-Diphtheria Vaccination in the Peoples' Republic of Rumania"

Authors

I Ardelean, correspondent member of the Academy of the PRK, Ch Calalb, C Lenistea, L Mesrobeanu, T Grigoriu, E Stanica, V Dumitrescu, N Mitrica and M Fotino

Site of

Not given

Comment:

This paper states that in the years following World War II (i.e. 1945-1950) due to the "adverse circumstances" systematic vaccination was badly neglected and the number of children not vaccinated increased to alarwing numbers. As a result of the breakdown of the vaccination system. there were 61,298 diphtheria fatalities in the period 1945-1950. In 1950 the Ministry of Health launched a drive to make up for lost ground but it was not until 1955 that the diphtheria immunisation was completed. In Rumania, diphtheria anatoxin, as well as all other "biologicals", is manufactured by the Dr I Cantacuzino Institute of Serums and Vaccines, but the Institute was unable to supply sufficient quantities of diphtheria vaccine during the 1950-1955 drive. Hence, the Rumanian Government was compelled to import a thousand liters of anatorin which was obtained partly from the Wellcome Laboratories of . London and partly from the Institute of Serums and Vaccines of Budapest.

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b. Title of Paper:

"The Influence of the Central Hervous System on the Treatment of Experimental Tuberculous Meningitis in Dogs"

Authors

S Ceriu, E Mintiu, E Mirsa, F Predoviciu, F Mercantiu, P Begresou and V Zeharia

Site of Researchs

Department of Chemotherapy of the Dr I Cantacusino Institute

Comment:

The work undertaken by the authors is . part of a research project on the "role of the central nervous system in chemotherapy" which was assigned to the Collective of Chamotherapy" by the Ausdemy of the PRR. The authors base their work on Pavlov's theories regarding the effect of the central nervous system on the development of normal and pathological processes in the organism. One group of experimentally infected animals was given sedatives such as lamytal, medinal, wrethen, luminal, ciclonal and nembutal prior to treatment with chemotherapy. A second group was given stimulants such as strychnine, caffeine and benzedrine prior to administration of chemotherapy. In both groups the chemotherapeutic agent employed for treatment of tuberculous meningitis was sulfosalicylate-alilthiog_nate-streptomycin (I2). The authors combinded that animals to which stimulants had been administered responded much more favorably to chemotherapy than the ones which had been given sedatives prior to chemotherapy.

The bibliography of this paper consists of citations from USSR material exclusively. $_{\odot}$

c. Title of Paper:

"Research Regarding the Purification and Concentration of Toxin Dick!"

Authors:

Igdia Mesrobeams, C Baldovin, N Mitrica, A Sareges, and V Gritaenco

Site of

Not given

d. Title of Papers

"The Action of Hidraride of Isonicotinic Acid (HAIN) on Mycobacteria"

Authors

Eugenia Soru, Cella Barber, Maria Isatrati, Maria Paduraru-Dumitrescu and Eugenia Podhorski

Site of Research:

Not given

e. Title of Paper:

"Ensyme Modifications of Germs under the Action of the Antibiotics Streptomycin and Sulfosalicylate-Alilthiccy-anate-Streptomycin (I₂)"

Authors

I Oeriu

Site of Besearch:

Department of Chemotherapy of the Dr I Cantacusino Institute and the Laboratory of Biological Chemistry of the Bucharest Faculty of Medicine

Section III Parasitology

en Title of Paper:

"Observations on the Klaments of Invasion in Parasitic Infestations of Dogs^π

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G Dinoulescu, D Steenseeu, C Rauchlach, I Manciu, D Hearu, Ivanes Rossin, I Pressin and D Lovin

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The authors subjected 936 dogs to repeated sogralegis examinations and deparasitations and discovered the following infestations to be prevalent: ascaridiasis, ankylostomiasis, trychariasis and ecceidiosis

b. Title of hours

"Considerations of the First Foci of Infantile Leishmaniceis
Identified in the Pooples' Republic of Rumania"

Anthorn:

M Mineulescu, I <u>Birsu</u>, S <u>Gretu</u>, F <u>Lovanescu</u>, D <u>Lonescu</u>, V <u>Implescu</u>, G <u>Michel</u>, S <u>Paulon</u>, A <u>Betaru</u>, I <u>Rosovici</u> and C <u>Zeberia</u>

Site of Besserch:

Not given

Coments

Rumania's first cases of infantile leishmanicsis were discovered in the city of Graieva and the authors discovered that the main sources of infestation are the Vidin and Low regions of Rulgaria.

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